

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the above-identified application:

Listing of Claims

Claims 1-17 (Canceled)

Claim 18 (Currently Amended) A fuel cell for use in a fuel cell stack, said fuel cell having a plate structure defining an active fuel cell area and a wet seal area bordering said active fuel cell area, wherein two opposite edges of said plate structure fold over a first surface of said plate structure forming two flanges adjacent said first surface of said plate structure, each of said flanges comprising a flat section spaced apart from and parallel to said first surface of said plate structure, said wet seal area including the region between a flat section of a first one of said two flanges and a first portion of said first surface of said plate structure opposite that flat section and said active fuel cell area including a second portion of said first surface extending from said first portion of said first surface, said fuel cell further comprising:

a corrugated current collector abutting and in contact with said active fuel cell area on said second portion of said first surface, said corrugated current collector and extending into said region included in said wet seal area on said first portion of said first surface and being spaced from said flat section of said first one of said two flanges;

an electrode abutting said current collector over a region which excludes the region of said current collector extending into said wet seal area;

a compliant member abutting and in contact with said current collector over a region of said current collector extending into said wet seal area, said compliant member comprising a planar body member, wherein sections cut out of the planar body member at

locations within the periphery of said planar body member extend outwardly of the plane of the planar body member, said sections of said planar body member imparting compliance to said compliant member, and

wherein said planar body member is dimensioned such that the periphery of said planar body member is within said wet seal area; and

further wherein said sections are arranged in a plurality of rows which are spaced along the width of ~~said planar body member and each of which extends~~ extend along the length of said planar body member ~~and includes a plurality of spaced sections; and~~

said compliant member being in said wet seal area in the space between the corrugated current collector and the flat section of said first one of said two flanges.

Claim 19 (Canceled)

Claim 20 (Currently Amended) A fuel cell according to claim ~~19~~ 18, wherein said active fuel cell area is the area between said two flanges on said first surface of said plate structure.

Claim 21 (Original) A fuel cell according to claim 20, wherein said electrode is one of a cathode and an anode electrode.

Claim 22 (Original) A fuel cell according to claim 21, further comprising a further compliant member abutting said current collector over a region of said current collector extending into a further wet seal area bordering said active area, said further wet seal area being defined by the region between a flat section of a second one of said two flanges and a portion of said first surface of said plate structure opposite that flat section, said further compliant member comprising a further body member having further sections extending outwardly of the plane of the further body member, said further sections imparting compliance to said further compliant member.

Claim 23 (Cancelled)

Claim 24 (Original) A fuel cell according to claim 18, wherein said body member is flat and one side of each of said sections of said body member is joined to said body member.

Claim 25 (Previously presented) A fuel cell according to claim 24, wherein the one side of each of said sections that is joined to said body member is on the same side of each of said sections of said body member.

Claim 26 (Original) A fuel cell according to claim 24, wherein said body member and said sections are made from a superalloy material or spring.

Claim 27 (Original) A fuel cell according to claim 26, wherein in the uncompressed state of said compliant member: the side of each of said sections opposite said one side joined to said body member is disposed at a distance of 0.01 - 0.06 inches from said body member, and said sections extend outwardly of the plane of said flat body member at an angle of 2-50 degrees.

Claim 28 (Original) A fuel cell according to claim 27, wherein said angle is reduced as compressive load is applied to said fuel cell.

Claim 29 (Original) A fuel cell according to claim 28, wherein said sections are disposed in the plane of the flat body member when said compliant member is fully compressed.

Claim 30 (Previously presented) A fuel cell according to claim 26 wherein the composition of said superalloy material comprises 50-58 weight % Ni, 17-21 weight % Cr, 2.8-10.5 weight % Mo, 0.5-3.3 weight % Ti, and 0.2-1.8 weight % Al.

Claim 31 (Original) A fuel cell according to claim 26 wherein said body member and each of said sections is rectangular.

Claim 32 (Canceled)

Claim 33 (Previously Presented) A fuel cell according to claim 18, wherein one side of each of said sections of said body member is attached to said body member.

Claim 34 (Original) A fuel cell according to claim 33, wherein said one side of each of said sections extends along one of the length of said body member and the width of said body member.

Claim 35 (Original) A fuel cell according to claim 34, wherein the one side of each of said sections extends along the length of said body member.

Claim 36 (Original) A fuel cell according to claim 34, wherein the one side of each of said sections extends along the width of said body member.

Claim 37 (Original) A fuel cell according to claim 32, wherein said rows of sections are offset one from the other in the length direction of said body member.